

Rebuild Hawaii Consortium

June 12, 2001

Meeting Minutes

County of Hawaii— Raymond Carr; **County of Kauai**— Glenn Sato; **Current-c Energy Savings, Inc.**—Sandy McCardell; **Department of Accounting and General Services**— Jimmy Hisaru, Richard Yasunaga; **Department of Business, Economic Development & Tourism (DBEDT)** – Maurice Kaya, Liz Raman, Dean Masai, Gail Suzuki-Jones, Howard Wiig, Steven Alber, James Dorian; **Eco-Lite and Hawaii Society for Healthcare Engineering**— Tom Brennan; **Global Engineering and Construction**—Kashmira Reid; **Hawaiian Electric Company, Inc.** – Norris Creveston, Sam Nichols, Thomas Van Liew, Jim Maskry; **Honolulu City Council**—Steve Holmes; **Housing and Urban Development**—Lynn Lee; **Life of the Land**—Henry Curtis, Kat Brady; **Navy PWC Pearl**—Nate Eisenpress; **PACDIV**— Eric Kawamoto; **Pearl Harbor Navel Shipyard**—Gary Shimabukuro; **Oak Ridge National Lab and East-West Center**—Larry Hill; **Strategic Energy Innovations**— Jennifer Webb; **U.S. Air Force, Hickam**— John Camara, Dave Stiner; **U.S. Department of Energy Pacific Liaison**— Eileen Yoshinaka; **UH Community Colleges**— Rodney Yim; **University of Hawaii School of Architecture**— Fred Creager, Steve Meder.

Eileen Yoshinaka reported on recent activities with the USDOE. Eileen encouraged people to submit comments to DOE's review of programs in the Office of Energy Efficiency and Renewable Energy. A public meeting to receive oral comments was held on June 19, 2001 but there is still time to send in written comments. Written comments will be accepted and must be submitted to the Department of Energy no later than 5:00 p.m. EDT, June 29, 2001. Written comments should be no more than four single spaced pages, using 12 pitch font and 1 inch margins. Comments may be sent to: Ms. Bonny Overton, U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, EE 3.1, 1000 Independence Avenue, S.W., Washington, D.C. 20585, or email to EERENEP.comments@ee.doe.gov.

- Hawaii was successful awarded \$150,000 for its Rebuild America Program from the competitive State Energy Program Special Projects Solicitation.
- The first copy of the BusinessPartner Bulletin is available. The bulletins will be sent out every two months. To receive a copy of the bulletin, email Amy Tilton at atilton@aspensys.com.
- Rebuild America is planning to have the next Peer Exchange meeting in Oregon or Washington during the first week of October.
- New Assistant Secretary of the DOE's Office of Energy Efficiency and Renewable Energy is David Garmond.

For more information contact Eileen Yoshinaka at 541-2564.

Jennifer Webb reported on the Rebuild America National Forum. The Forum was held in Atlanta, Georgia on March 13-15, 2001. Workshops covered topics on High Performance Partnerships, Connecting with Classrooms and Campuses, The Changing Energy Landscape, Tomorrow's Technologies Today, and Innovative Approaches to Reaching Key Audiences. A good resource—*The Big Picture Energy Efficiency Training Program* is a free CD-Rom offered by the U.S. Department of Energy's Rebuild America Program. For a copy call 1-800-363-3732.

Here are the 2001 Energy Champion Award winners.

- Partnership of the Year—Rebuild Boston Energy Initiative
- Partnership Leader of the Year—John Root, Muscatine, Iowa
- State Partnership of the Year—Rebuild Alabama
- Business Partner of the Year—Sempra Energy Services
- K-12 Schools—Ohio Energy Project
- Local Government—Rebuild Buffalo Niagara Region Partnership
- Commercial Buildings—The Hotel Alice Project
- Universities & Colleges—University of Utah
- Public and Affordable Housing—Boston Housing Authority
- Man of the Year—Larry Schoff

Steve Meder reported on the Greenprints Conference. Greenprints combined with the Rebuild Forum in Atlanta, Georgia on March 15-16, 2001. The combined effort allowed community leaders, planners, and public decision makers to gather together with architects, engineers, designers, and manufacturers. Workshops covered topics on sustainable community design, construction ecology, clean energy and transportation, high performance buildings, and making sustainability your business.

Tom Van Liew reported on the LEED (Leadership in Energy and Environmental Design) Training workshop held on May 17, 2001. The U.S. Green Building Council developed the LEED Green Building Rating System. This system is a comprehensive, voluntary design and assessment tool designed specifically for the U.S. market to help building industry professionals improve the performance and measure the sustainability of their projects. Buildings are given a rating based on five categories: sustainable sites; water efficiency; energy and atmosphere; environmental quality; and materials and resources. The NOA building planned for the UH campus is going for the highest rating, LEED Platinum.

Gail Suzuki –Jones reported on the Green Building Conference held on May 18, 2001. Over 180 people attended. The Conference covered:

- Technical and practical choices to building green;
- Methods, case studies, and resources focusing on green building techniques that are high on the list of what both Federal and State policy makers and consumers want; and
- Financial incentives and other market drivers that provide opportunities to green buildings and a business' bottom line.

If you missed the conference Gail can provide you with a booklet of information and presentations. *For a copy contact Gail at 587-3802.*

Tom Brennan shared information on a project at Kaneohe Marine Corps Base to retrofit lights in five helicopter hangers. The hanger fixtures held 1,000-watt Metal Halide lamps. The lamps produce a lot of heat and on hot days the heat rises and accumulates at the top of the hanger. The high heat caused the lamps to explode. So they wanted to replace the lamps to reduce costs and improve safety. The lamps will be replaced with 400-watt Metal Halide with a dual reflector system. This project will save a total of \$155,000 for the five hangers. The payback period is one and a half years.

Steve Holmes reported City and County LED and City Hall retrofit projects are in progress.

Howard Wiig announced a testimony to City Council on July 11, 2001.

- Bill 53 requiring residents to put R-19 or equivalent in roofs
- Bill 54 to update the model energy code to reflect changes in ASHRAE standards

Contact Howard for more information at 587-3811.

Liz Raman reported first six Close-Ups from the Rebuild Marketing Plan are available. Larry Hill's report, *Energy-Efficiency Policies to Promote Sustainable Economic Growth in Hawaii Responses To Technical Change and Globalization*, is now available. *For copies contact Liz Raman at 587-3806.*

Maurice Kaya reported on two other Special Projects grants:

- PV project at the NOAA facilities on Mauna Loa, partnering with HELCO to do feasibility and design study
- Distributed generation project

Larry Hill presented on *Restructuring Revisited*.

Larry spoke about what restructuring is, why restructure, who has responsibility to restructure, and alternatives to restructuring. Restructuring refers to federal and state initiatives that change the industrial organization and regulation of the electric industry to (i) improve its efficiency and, therefore, (ii) lower the retail price of electricity. In California electric restructuring did not improve efficiency and did not lower the retail price of electricity. So what went wrong?

- Poorly planned provisions of California Legislation
- Demand increased by 11.3% while capacity decreased by 1.7% (1990-1999)
- Relies on 11,000 MW of imported power
- Drought in Northwest
- Can't have a competitive market when you restrict supply and demand
 - 3 utilities must sell into—and buy from—the power exchange for 4-year transition period
 - Retail electric prices capped
- Alleged “gaming” of the market by suppliers
- Strict environmental laws
- Natural gas supply bottlenecks
- Transmission capacity bottlenecks

For more information or a copy of Larry Hill's presentation please contact Larry at 944-7511.

Gail Suzuki –Jones presented on *Implementing Environmental and Energy related Executive Orders—Case Studies*. Gail spoke about three executive orders and what they have done at the federal level and what they could do at the state and local level.

- Executive Order 13101. Greening the government through waste prevention, recycling, and federal acquisition.
- Executive Order 13123. Greening the government through energy-efficient management.
- Executive Order 13134. The development of bio-based and bio-energy products.

The Hawaii Procurement Code mandates the State and urges County agencies to purchase products with recycled content. The State is doing well with purchasing recycled content office paper but has a long way to go with purchasing other products with recycled content.

Gail highlighted case study projects here in Hawaii that demonstrate how “green” practices can be cost effective. One project is a Hawaiian Dredging project at Pearl Harbor Shipyard. This project saved more than \$ 31,000, recycled 104 tons of material (metal, concrete, asphalt), which

helped generate revenue of \$2500, and earned them recognition by donating a metal shed to Disabled American Veterans.

Resources

- *A Contractor's Waste Management Guide* provides a construction and waste management plan
- CD-Rom available Greening the Government
- Energy Star online training courses through FEMP held in June/ July online workshops.
- Activity book for K-3 grade students, *The Kahuli, the Kolea, the Honu & Kim, An Adventure in Recycling, Reducing, and Reusing.*

For more information or a copy of Gail Suzuki-Jones's presentation contact Gail at 587-3802.

Sam Nichols and **Tom Van Liew** presented on Maui Smart Schools.

The object of the program was to put together a report on Maui Schools detailing the lighting consumption and costs in 32 public schools. Four MCC Energy Management Program students were trained as auditors. The students collected and calculated data from the schools to use as a benchmark. Benchmarking the schools will help the DOE and DAGS to prioritize schools for lighting retrofits. The auditors found that 30% of all fixtures need to be replaced. The report will include recommendations on how to finance the project. *For more information or a copy of the data contact*

Sam Nichols at 543-4753 or Tom Van Liew at 543-4721.

Dean Masai presented on *DBEDT residential programs.*

The HABiT Project (Hawaii Advanced Building Technologies) trains people here in Hawaii to build energy and resource efficient homes. A HABiT Guide is available and provides a useful checklist. They are working on a Residential Energy Efficient Building Guidelines Project. This project develops ways to:

- "Incentivize" the cost effectiveness of energy saving homes;
- Move the housing market toward greater energy efficiency by creating consumer awareness of new technologies and design and construction strategies; and
- Give builders a new marketing tool in a very competitive market.

The *Comfortable Homes in Hawaii: Guidelines for Energy Efficient and Economical Housing* is a guide put together by the State for homebuilders and owners. A Guidelines for Commercial Buildings is in draft copy.

The model demonstration home in Waianae Valley was a successful project. Partnering was key to the success of this project. The home featured "three big bang techniques."

- HECO approved solar water heating
- Radiant barrier
- Natural ventilation

For more information or a copy of Dean Masai's presentation contact Dean at 587-3804.

Tom Brennan demonstrated a new LEC (light emitting crystals) exit sign. The sign uses 1/4 watt of power and costs 22 cents a year to run. The sign is green and much brighter than an LED sign. In a dark smoke filled room you can see the green sign easier and will not mistaken it for the fire. *For more information contact Tom Brennan at 923-4271.*

Action Items

- The next Rebuild Hawaii Consortium meeting is scheduled for August 9, 2001.
- Ray Carr and Glenn Sato are putting together a nominating committee for the Rebuild Hawaii Consortium President and Vice President. If you are interested please contact Ray Carr at 808-961-8497 or Glenn Sato at 808-241-6390.

Upcoming Events and Activities

- 2001 Pacific Coast Electrical Association (PCEA)-Hawaii Conference & Expo during September 20-22, 2001 at Outrigger Waikoloa Beach Hotel on the Big Island. Contact Destination Hawaii at 538-6200.
- Distributed Generation Opportunities for Hawaii and other Pacific Islands. Workshop on July 24-25, 2001 at Prince Kuhio Hotel. Registration is \$40.00 for the one and a half day workshop. Contact Eileen Yoshinaka at 541-2564 or Steven Alber 587-3837.